

## Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO37737 Receipt Dates from 9/19/2017 to 9/19/2017

<b>Total Received Quantity:</b>	111.0000
<b>Total Qty to Inspect (PO U/M):</b>	0.0000
<b>Total Reject Quantity:</b>	0.0000
<b>Total Receipt Value:</b>	\$1,088.92
<b>Total Balance Due Quantity:</b>	0.0000



## DELIVERY - CLIENT

Copy C000050582

### ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2017/09/12

Delivery date 2017/09/15

Your order N° 37737

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 1

### Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	OUT
<b>1</b> ROUND ALU 4 1/4 6061-T6 RANDOM NS RAL-414-V 8915 DAS 5 9-89 1 X 36" HEAT: 201707789 AC9213-TY-18/09	50.00	3.00	PI_\$CLB							
<b>2</b> FLAT ALU 1 X 12 6061-T6 (12) FAL-112-12 2436 1 X 12' HEAT: (201704837 changer) * 5 9-89 AC9000-SA-18/09	169.34	12.00	PI_\$CLB							
<b>3</b> ALU PLATE 5/8 6061-T651 RANDOM PAL-586061-V 4298 2 X 36" X 111" HEAT: 6151024 AC9213-TY-18/09	505.12	56.00	PI2							

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**DELIVERY - CLIENT****Copy** C000050582**Billed to**

DART AEROSPACE LTD

1270, ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

, Ontario,

At: CHANTAL LAVOIE Tél.: 613-632-5200

**Instruction** F-M**Delivery Route** 5**Credit Terme**

Net 30 Days

**Page**

2

**Customer N°**

CLI0001056

**Date**

2017/09/12

**Delivery date**

2017/09/15

**Your order N°**

37737

**Processed by**

Josianne Bourdon

**Salesman****Carrier**

OUELLETTE VALLEYFIELD

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
4 ALU SHEET .051 (16G) 6061-T6 (4 X 12) FEAL-0514126061 3145 1 X 4' X 12' HEAT: _____	34.46	48.00	PI2_\$CLB						OUT
5 ALU SHEET 1/8 6061-T6 (4 X 8) FEAL-18486061 4256 3 X 4' X 8' HEAT: _____	169.34	96.00	PI2_\$CLB						
6 SHEET 4130 N .050 RANDOM NS FE4130-050-V 8923 3 X 36" X 72" HEAT: _____	111.00	54.00	PI2_\$CLB						

**Conditions :**

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

**Total Weight (Lbs) :** 1 039.26**NIR :** R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Y

M

D

**Total (\$CAD)**

Customer's Signature

Date



**Service Center Metals**  
 585C Quality Way  
 Prince George, VA 23875

**Can Do.**

**BILL TO**

ThyssenKrupp Materials NA-St Laurent, QC

**SHIP TO**

ThyssenKrupp Materials NA-St Laurent, QC

Quantity Certified 2 402 lbs 12 pcs

**INVOICE NUMBER**

334177

**CUSTOMER PO**

VIM-641507

**CUSTOMER PART NUMBER**

RD0525

**DIE NUMBER**

RD0525

**ALLOY / TEMPER**

6061-T6511

**DESCRIPTION**

Lightning Rod Tite 4 250 +/- .012

**DATE OF SHIPMENT**

5/30/2017

**SALESPERSON**

D. Schroeder (Canada)

**CERTIFICATION**

ASTM-B221-14 StencilCont

**SPECIFICATION**

AMS-QQA-200/8 Rev-A

OUR ORDER NUMBER	ITEM
921454	12

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2 REACH, and DFARS compliant.

**Mechanical Properties**

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2	201707789	5/16/17	min 48.30 max 55.10	min 44.80 max 51.70	min 15.90 max 18.50

DAS 5 3-89

**Chemical Composition for Aluminum Alloy 6061**

Cast #	Lot No	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source
001E170510A	201707789	6061	0.74	0.37	0.32	0.11	0.89	0.10	0.07	0.03	97.38	0.05	0.15	United States of America
001J170510A	201707789	6061	0.74	0.37	0.32	0.11	0.89	0.10	0.07	0.03	97.38	0.05	0.15	United States of America
001J170513A	201707789	6061	0.73	0.37	0.31	0.10	0.88	0.10	0.05	0.03	97.43	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

*Galvin J. Winnings*

Galvin J. Winnings, Director of Quality & Technical Services

Print Date: 5/30/2017

#0420

50202



Can Do.

## Service Center Metals

 5850 Quality Way  
 Prince George, VA 23875

 CERTIFIED INSPECTION REPORT AND TEST RESULTS  
 FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
289111	11

CERTIFICATION
ASTM-B221-14 No Stencil
SPECIFICATION
AMS-QQA-200/8 Rev-A

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT
Samuel & Fils & Cie Ltee	327862	PL0741	3/30/2017
SHIP TO	CUSTOMER PO	ALLOY/TEMPER	SALESPERSON
Metaux Specialises Samuel	C74189	6061-T6511	D. Schroeder (Canada)
Quantity Certified	2,032 lbs	12 pcs	DESCRIPTION
			PL 1.000 x 12.000

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

## Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201704837	3/30/17	min 50.40 max 50.40	min 46.50 max 46.50	min 16.60 max 16.60

DAS 5 9-89

R052415-716

## Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Total	Others	Melt Source:
001M170313A	201704837	6061	0.75	0.38	0.33	0.10	0.89	0.10	0.07	0.03	97.36	0.05	0.15		United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality &amp; Technical Services

Print Date: 3/30/2017

Rev 9/2/16

PAGE 18V

MILL TEST/QUALITY CONTROL CERTIFICATE

ALNAN ALUMINIUM INC.

No.55 TingHong Road Nanning, Guangxi, 530031, China

10

DATE: February 6, 2016

PRODUCT TYPE

Aluminum Alloys Sheet

ADDRESS

2115 LINWOOD AVENUE, 2ND FLOOR, FORT LEE, NJ 07024, USA

CUSTOMER

EMPIRE RESOURCES, INC.

UNIQUE Lot Number	HEAT Number	Dimension (mm)	Dimension (inch)	Alc Thick (mm)	Alc Thick (inch)	Weight MT	Alloy	Temper	Al	Cu	Mg	Si	Fe	Mn	Zn	Ti	Cr	Elong (%)	UTS ksi	Yield ksi
Standard	Standard	0.157-0.175	0.006-0.007				6061	T6	remainder	0.15-0.40	0.2-1.2	0.10-0.3	0.7max	0.15max	0.25max	0.15max	0.04-0.35	4min	42min	35min
Standard	Standard	0.203-0.229	0.008-0.009				6061	T6	remainder	0.15-0.40	0.3-1.2	0.10-0.3	0.7max	0.15max	0.25max	0.15max	0.04-0.35	6min	47min	35min
Standard	Standard	0.254-0.508	0.010-0.020				6061	T6	remainder	0.15-0.40	0.5-1.2	0.10-0.3	0.7max	0.15max	0.25max	0.15max	0.04-0.35	8min	42min	35min
Standard	Standard	0.533-6.325	0.021-0.249				6061	T6	remainder	0.15-0.40	0.3-1.2	0.10-0.3	0.7max	0.15max	0.25max	0.15max	0.04-0.35	10min	42min	35min
201602050701	6151024	3.175*12.19.2*2.138.4	0.125*48.0*96.0	3.080	0.121	1.610	6061	T6	remainder	0.28	1.05	0.63	0.21	0.13	0.07	0.02	0.24	15.5	45.0	39.2
201602050702	6151024	3.175*12.19.2*2.138.4	0.125*48.0*96.0	3.080	0.121	1.610	6061	T6	remainder	0.28	1.05	0.63	0.21	0.13	0.07	0.02	0.24	15.5	45.0	39.2
201602050703	6151024	3.175*12.19.2*2.138.4	0.125*48.0*96.0	3.080	0.121	1.610	6061	T6	remainder	0.28	1.05	0.63	0.21	0.13	0.07	0.02	0.24	15.5	45.0	39.2

ORIGIN OF GOODS AS ALNAN ALUMINIUM INC.

ACTUAL MILL CHEMICAL AND MECHANICAL PROPERTY TEST REPORTS IN IMPERIAL NOMENCLATURE REQUIRED PER SKID

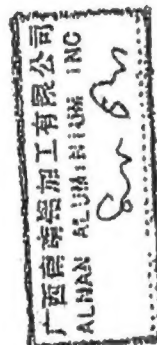
MATERIAL CONFORMS FOR ALLOY 6061, T6, AS PER AMS QQA 250H1, AMS 4027, ASTM-B209-10 SB-209 AND ALUMINUM ASSOCIATION STANDARDS-2009 IN ALL ASPECTS.

COUNTRY OF MELT AND MANUFACTURE: CHINA

Issued by [QA51]

Reviewed by [QA10]

1/1





# BRIGHTSTEELS

LIMITED

MANUFACTURERS OF BRIGHT STEEL BARS

NORTON WORKS · MALTON · NORTH YORKSHIRE · ENGLAND · YO17 9BD

T: +44 (0) 1653 602122

F: +44 (0) 1653 695856

E: [export@bright-steels.com](mailto:export@bright-steels.com)

## Certificate Of Analysis

Date : 22/02/2017

Number : 108633

VAT Registration No. 166 8255 35

Invoice To:

Deliver To:

UNLESS AGREED OTHERWISE THE MATERIAL DETAILED BELOW HAS BEEN INSPECTED AND TESTED ACCORDING TO PROCEDURES RELATIVE TO OUR BS EN ISO 9001 REGISTRATION TO COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND ORDER. CONFORMS TO EN 10204 2.2. ORIGINAL CERTIFICATES ARE HELD ON FILE.

ORDER LINE	DESCRIPTION AND ORDER DETAILS	CAST NO.	BATCH NO	DESPATCH WEIGHT	UOM	QUANTITY
---------------	----------------------------------	----------	----------	--------------------	-----	----------

YOUR ORDER NO. : B 97899

OUR ORDER NO. : 172235

BRIGHT MILD FLAT TO ASTM A29-03 (A108-99) 1018

IN 12'12"3" LENGTHS

TARIFF NO. 7215 50 11

ITEM CODE - V731331

3	1/4" X 3/4"	3071118	PRD-11754701	1400	LBS	635 KGS
---	-------------	---------	--------------	------	-----	---------

CAST	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Cu %	Sn %	Al %
3071118	0.155	0.235	0.802	0.012	0.012	0.121	0.060	0.204	0.227	0.009	0.020

Signed :



#2910

FCR-385-12

PO. 8919

Customer Name

Customer PO#

Invoice No

Shipper No

Heat Number

ACIER OUELLETTE INC. DIV SALABE

AC8919

90593

84846

161503



**NUEVA INCAL, S. A.**  
aceros calibrados

Calle 24 - Apartado 13  
48300 GERNIKA - BIZKAIA Spain  
Telephone: (34) 94 625 17 12 - 16  
Fax: (34) 94 625 46 27  
nueva@nueva-incal.com  
www.nueva-incal.com

AENOR

R

PASAD

161503



## CERTIFICADO DE CALIDAD

**CERTIFICAMOS:** Que el material suministrado con cargo a los pedidos de referencia y amparado por nuestro albarán N° EX/4.511 y Fra. N° A/21.801 corresponden a los análisis y fusiones siguientes de acuerdo con la norma EN 10204 / 2.2:

S/.Pedidos N°	Composición Química de la colada									Caract. mecánicas laminado		
	MATERIAL	CALIDAD	COLADA	C. %	Mn. %	Si. %	S. %	P. %		Re N/mm2	Rm N/mm2	A %
MON-54349	1 X 1		583061	0,17	0,72	0,16	0,018	0,019		321,00	496,00	29,00
MON-54349	1-1/4 X 1-1/4		7855	0,17	0,75	0,19	0,009	0,016		448,00	293,00	37,20
MON-54349	1-1/2 X 1/4		47395	0,15	0,76	0,16	0,032	0,014		349,00	499,00	37,00
MON-54349	2 X 1/4		580842	0,16	0,72	0,17	0,023	0,014		330,00	500,00	30,00
MON-54349	4 X 2		162442	0,20	0,70	0,17	0,004	0,017		545,00	573,00	15,00
MON-54349	3-1/2 X 1/2		161629	0,16	0,79	0,18	0,002	0,021		329,21	454,32	24,66
MON-54349	5 X 3/8		161503	0,17	0,80	0,16	0,004	0,023		548,00	576,00	13,00
MON-54349	5 X 1		161962	0,16	0,84	0,18	0,006	0,018		548,00	575,00	15,00
MON-54349	5 X 1-1/2		161915	0,17	0,78	0,19	0,004	0,021		544,00	572,00	14,00
MON-54349	4 X 1		580133	0,16	0,73	0,18	0,022	0,015		320,00	490,00	32,00
MON-54349	6 X 3/8		160518	0,16	0,68	0,16	0,007	0,016		552,00	579,00	8,00
MON-54349	6 X 1/2		161361	0,18	0,73	0,23	0,006	0,017		558,00	586,00	13,00
MON-54349	6 X 5/8		152780	0,16	0,85	0,19	0,004	0,011		544,00	570,00	9,00
MON-54349	6 X 1		161367	0,16	0,82	0,17	0,004	0,017		551,00	578,00	14,00
MON-54349	8 X 1/2		162494	0,16	0,79	0,17	0,009	0,012		567,00	595,00	14,00
MON-54349	8 X 1		161036	0,20	0,74	0,19	0,006	0,016		565,00	593,00	14,00

Gernika, 30 de Noviembre de 2.016

Responsable de Calidad







(CUSTOMER SHIP TO) LES ACHES TRANSHUC 1907 LITE 433 DE HAVRE RD SALABERRY DE VALLEYFIELD QC J0S 5L1 Canada	(CUSTOMER BILL TO) LES ACHES TRANSHUC 1907 LITE 404 BOUL. LE CORBIUSIER LAVAL QC H7L 5R2 Canada
SALES ORDER 5140135000510	CUSTOMER MATERIAL N°

GRADE: 6063AL-T3	SHAPE / SIZE: Angle / 3X1X1/4	DOC (INCHES) TH: 00000051290
LENGTH: 20'00"	WEIGHT: 0.470 LB	HEAT / BATCH: 52079714002
SPECIFICATION / DATE OF REVISION: ASTM A526-14, A572-15 ASTM A513 A514, ASSM SA-76		

CUSTOMER PURCHASE ORDER NUMBER  
CA4790XESM03PBIL. OF L. ADING  
1702-1800000.1416

DATE 08/28/2017

ASTM A529-14, A572-13  
ASTM A618, A70-14, ASME SA-36  
ASTM A709-15, ASHTR A5720-12  
EN 5730-20-13, EN 5730-21-13

CHEMICAL COMPOSITION	
$\zeta_{\text{Fe}}$	0.14
$\zeta_{\text{Mn}}$	0.80
$\rho_{\text{Fe}}$	0.019
$\zeta_{\text{Fe}}$	0.026
$\zeta_{\text{Ni}}$	0.20
$\zeta_{\text{Cu}}$	0.35
$\zeta_{\text{Ni}}$	0.10
$\zeta_{\text{Co}}$	0.17
$\zeta_{\text{V}}$	0.014
$\zeta_{\text{Nb}}$	0.001

MECHANICAL PROPERTIES	
Elong.	CTD
	inch
30.00	8.000
31.30	8.000

CONTENTS: NOTES

This grade meets the requirements for the following grades:

A3TM Grades: A36, A570, 50, A572-50, A709-36, A709-50

C5A Grades: 44W, 50W

AASHTO Grades: M270-36, M270-50

ASME Grades: SA36

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in Canada. CNTR complies with EN 10204 1.1

PLASKAP VAL ANASTHIN  
QUALITY DIRECTOR  
Mackay

Phone: (409) 768-1014 Email: Bhaskar\_Yalamanchi@yahoo.com

LEONARDO NIELS  
QUALITY ASSURANCE MGR

Phone: (905) 669-8811 Ext. 4053 Email: [brooks@northstar.com](mailto:brooks@northstar.com)

50582

LES ACIERS OUELLETTE INC.  
 BARRE RECT. ALUM ECONOPLT 6061-T6511  
 1.00" X 12.00" X 144.0000"  
 PART NO.

PO/Re: OUL-75127  
 Nous certifions que le document reproduit ici est  
 une copie conforme du rapport fourni par le  
 fournisseur du matériel ou les données résultent

**Certificate of Mill Test Results**  
 BL VIM-4695M-003  
 de l'analyse faite par un laboratoire qualifié  
 SIGNE PAR: LUCY TRUGLIO  
 Page 1/1

**KAISER**  
**ALUMINUM**  
 FABRICATED PRODUCTS

*Best in Class*

**CERTIFIED TEST REPORT**  
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
 FABRICATED PRODUCTS, LLC  
 5205 KAISER DRIVE  
 KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: VIM-633551-9		CUSTOMER PART NUMBER W73/STK		PRODUCT DESCRIPTION 1.000 X 12.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 690509	LINE ITEM: 009	SHIP DATE: 11/20/2015	KAISER LOT NUMBER: Z00014100	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 6.000 PCS	DL NUMBER: 613952	DIAM/DAF/THKNS. 1.000	WIDTH: 12.000	LENGTH: 12.000 FT
SHIP TO:			SOLD TO:		

**Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00014100	0001	1	45.5	41.4	15.0	RE 94	N/A	N/A

**Chemical Composition (wt%), Aluminum Remainder**

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.30	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
105574	.77	.31	.29	.10	.95	.09	.95	.02	.00	.00	.00	.01	.22

**Applicable Requirements:**

ASTM-B221-14 STENCILED ASME-SM221 1996 SECT II AMS-CC A-200/CA UNS-A90051 (T6511 also conforms to T6-not applicable to other tempers)

**Miscellaneous Notes**

MANUFACTURED IN USA MELTED IN USA  
 MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.  
 Almee L. Macnowski, Quality & Technology Manager

*Almee L. Macnowski*

Plant Serial: 00204344  
 Kaiser Order Number: 690509  
 Line Item: 009

PO 4443

But

Best in  
Class





GERDAU

U.S. MIL. CARTERSVILLE  
384 OLD GRASSDALE ROAD NE  
CARTERSVILLE, GA 30121  
USA

CERTIFIED MATERIAL TEST REPORT

Page 1/1

CUSTOMER SITE TO	CUSTOMER BILL TO	GRADE	SHAPE - SIZE	DOCUMENT ID
LES ACHERS TRANSSEC 1997 LTTE 935 DU HAVRE BLVD SALABERRY-DE-VALENTIN, QC J6S 5L1 Canada	LES ACHERS TRANSSEC 1997 LTTE 4054 BOULEVARD CORBIER L'VAL, QC H7L 5R2 Canada	GBUL-LT1	114 Bar / 1/2 N12	000005430
SALES ORDER 46299710000010	CUSTOMER MATERIAL N°	LENGTH 20'00"	WEIGHT 4.488 LB	HEAT / BATCH 5504847002
CUSTOMER PURCHASE ORDER NUMBER CA46380EHL01P	BILL OF LADING 1902-0000057320	DATE 03/21/2017	SPECIFICATION / DATE OF REVISION ASTM A529-14 A572-15 ASTM A6-14, A36-14, ASME SA 36 ASTM A706-15, AASHTO M270-12 CSA G40.20 130G90.22 15	

CHEMICAL COMPOSITION									
C	Mn	P	S	Si	Cr	Ni	Mo	V	Nb
0.16	0.92	0.017	0.021	0.20	0.31	0.11	0.12	0.012	0.001
Cu	Al	As	Sn	Se	Pb	N	Bi	Fe	
						0.0100		0.0010	

CHEMICAL COMPOSITION	
Sn	0.013

MECHANICAL PROPERTIES	
Elong.	GL
23.60	Inch
20.50	8.000
	71700

UTS	UTS
73100	MPa
71700	504
	494

YS 0.2%	YS
51900	MPa
52100	358
	359

COMMENTS / NOTES  
This grade meets the requirements for the following grades:  
ASTM Grades A529-50, A572-50, A706-36, A709-50  
CSA Grades 44W, 50W  
AASHTO Grades M270-36, M270-50  
ASME Grades SA36

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in the USA. CMTR complies with EN 10204 3.1.

*Maackey*

BHASKAR VALAMANCHILI  
QUALITY DIRECTOR

Phone: (409) 769-1014 Email: Bhaskar.Valamanchili@gerdau.com

*yan wang*

YAN WANG  
QUALITY ASSURANCE MGR.

Phone: (770) 387 5718 Email: yan.wang@gerdau.com

10631

7-3012-24

47884

# RAPPORT DE TEST MATÉRIEL

## Vendu

à : ACIER OUELLETTE INC. DIV SALAVERRY-DE-  
Estelle Quenneville  
935 du Havre  
Valleyfield, QC  
J6S 5L1  
Canada

## Expédier

à : ACIER OUELLETTE INC. DIV SALAVERRY-DE-  
Estelle Quenneville  
935 du Havre  
Valleyfield, QC  
J6S 5L1  
Canada

N° bon de livraison BL17-01806  
Date de document 5/8/2017

Votre n° de commande AC5434  
Notre n° de vente SO17-00893

<b>Description</b>		3.000 x 2.000 x 283.000 x 0.125 HR A500 B/C									
<b>Heat Number</b>		744888				<b>Made In</b>		Canada			
<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>
0.180	0.740	0.003	0.009	0.020	0.039	0.070	0.001	0.006	0.030	0.020	0.002
<b>Yield (Psi)</b>		<b>Tensile (Psi)</b>		<b>ELN.ZIN (%)</b>		<b>Certification</b>					
54,500		68,400.00		27.6		ASTM A500 GR B & C					

Les résultats reportés sur ce document représentent les attributs actuels du matériel fourni et indiquent la conformité complète avec toutes les spécifications applicables et les conditions contractuelles



GERDAU

CAN. MIL. WHITEY

1 GERDAR CT

WHITEY, ON L1N 5T1

Canada

CUSTOMER PURCHASE ORDER NUMBER  
CAN000065M04P

BILL OF LADING  
1907 0000002510

DATE  
07/11/2017

GRADE	SHAPE, SIZE	DOCUMENT ID
GRADE	AS 20 x 15	000000002
LENGTH	WEIGHT	HEAT / BATCH
20'00"	5,007 LB	52079366/03

SPECIFICATION / DATE OF REVISION

ASTM A529-14, A572-13  
ASTM A501-14, A501-14, ASME SA-50  
ASTM A509-15, A509-15, ASME SA-509  
CAN 640 20-1 36-60 25-13

CUSTOMER NAME TO  
LESACHERS TRANSBET 1907 THE  
3051 BOUL. LE CORBIER  
LAVAL, QC H7L 5R2  
Canada

CUSTOMER MATERIAL N°

SALES ORDER

5150135000070

CHEMICAL COMPOSITION	C	Mn	P	S	Si	Cu	Ni	Cr	V	Nb
	0.15	0.73	0.016	0.010	0.18	0.29	0.11	0.16	0.013	0.001

METRIC MECHANICAL PROPERTIES	Y <sub>TS</sub>	UTS	Y <sub>TS</sub>	UTS	Y <sub>TS</sub>	UTS
Elong.	23.80	74120	23.80	74120	23.80	74120
	24.40	74316	24.40	74316	24.40	74316

COMMENTS / NOTES

This grade meets the requirements for the following grades:  
ASTM Grades A36, A572-50, A572-50, A709-50, A709-50  
CSA Grades 44W, 50W  
ASME Grades M270-50, M270-50, M270-50  
ASME Grades SA36

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in Canada. CMTR complies with EN 10204 3.1

*Phaskey*

PHASKEY VALAMANCHILU  
QUALITY DIRECTOR

Phone: (409) 769-1011 Email: Phaskey.Valamanchil@gerdau.com

*Leonardo Nunes*

LEONARDO NUNES  
QUALITY ASSURANCE MGR.

Phone: (409) 646-8811 EXT 4055 Email: Leonardo.Nunes@gerdau.com





$\mathcal{H} = \mathcal{H}_1 \oplus \mathcal{H}_2$

PA6 166V

20

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bellendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any special instructions forming a part of the description and that the material is representative of the material that the corporation limits and has the mechanical properties shown on the face of this sheet.

3055128 Ship Date 0 R.I. No. Invoice No. Alcoa No. Item 2016-10-25 11085569 00000 1000853903-1 DPE-53903-01-1 P.O. No./Govt Contract No. Customer Alcoa Item C73254 Inv# 1 SAWMILL SON & CO LT G041015420R17

Rob Woodall Director of Manufacturing Operations Quality Assurance Manager

Item Description 0.05 IN TK (+0.0000 -.0035) X 48.0 IN W (+.125 -.125) X 144.0 IN LN (+.15625 -.15625) CAT X G041015420R (H) A/T 6061-T6 FLAT SHEET FOR DISTRIBUTORS TOLERANCE GUARANTEED, AMS4027 REV N ANS1H35.2 REV 2013 EXC\_MRK ASME-SB-209 REV 15 EXC\_MRK VASTM209 REV 14 ((MARKED)) KRAFT PAPER INTERLEAVED MAX GROSS SKID WGT: 4750 LB QUAN TOL +/- 10 % COR D126870 REV 44 CUST REQ 16-11-02 \*\*\* W/E 16-11-05 \*\*\*

Table with 5 columns: Num, Package Ticket, Lot, Weight, Quantity, UOM, Inspector Clock Numbers. Row 1: 1, 278704, 396761, 3910, 122, PC, 47275 27713 27666

Notes for COR: D126870-.44 PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250\_11 ORIGINAL REVISION N DATED 1997-08-01.

COR: D126870.44 -Specification Limits

Table with 4 columns: Tmp, Dir, Long, Transv. Rows for UTS, TYS, BLAD, KSI, PCT, Max, Min.

Table with 10 columns: SI, FE, CU, MN, MG, CR, ZN, TI, Each, Total, Aluminum. Row for REMAIN.

Chemical Composition Alloy 6061 - Mechanical, Physical, Metallurgy, Quantometer Results

Table with 4 columns: Tmp, Dir, Long, Transv. Rows for UTS, TYS, BLAD, KSI, PCT, Max, Min.

**DAVENPORT WORKS 4879 State Street Ballendorf, IA 52722**

**Ship From: RIVERDALE, IA.**

3055128	0				
Ship Date	B.L. No.	Invoice No.	Alcoa No.	Item	
2016-10-25	11086569	00000	1000855903-1		DPE-53903-01-1
P.O. No./Buy Contract No.	Customer		Alcoa Item		
C73254 Int# : 1					
SAMUEL SON & CO LT G041015420R17					

**Terrance Thom**  
**Only Assurance Warranty**

Loc: 396761 - Mechanical, Physical, Metallurgy, Quantumeter Results (cont.)

50.1	42.8	12.6
50.2	42.8	12.5
50.5	43.4	12.3
50.1	42.7	12.9
50.2	42.8	12.8
50.2	42.8	12.6
50.6	43.5	12.2
50	42.3	12.8
50.1	42.4	13.1
50	42.5	12.7

Cast Number	Chemical - OES	SI	FE	CU	MN	MG	CR	ZN	TI	Other	Each	Other	Total
	Actuals												
16M0143041		0.65	0.5	0.24	0.06	1.0	0.17	0.01	0.06	< 0.05		< 0.15	

This material was melted in the United States or a Qualifying Country (REF DFARS 225.872.1(a)); it was manufactured in the United States

# CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bellendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that our inspection is representative of the material and the composition limits and has the mechanical properties shown on the face of this sheet. This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of data, location, or conditions tested for statements or entries on this certificate by any person may be punished as a felony under applicable law.

Director of Manufacturing Davenport Works

Quality Assurance Manager

Page 1 of 2

3055128 Ship Date 0 B.L. No. Invoice No. Alcoa No. Item  
2016-10-25 11086569 00000 1000053903-1 DPE-53903-01-1  
P.O. No./Govt Contract No. Customer Alcoa Item  
C73254 Inv# 1 SAMUEL SON & CO LT G041015420R17

Item Description  
0.05 IN TK (+0.0000 -0.0035) X 48.0 IN W (+.125 - .125) X 144.0 IN LN (+.15625 -.15625) CAT X G041015420R (N) A/T 6061-T6 FLAT SHEET FOR DISTRIBUTORS  
TOLERANCE GUARANTEED VAMS4027 REV N ANSIN35.2 REV 2013 EXC\_MRK ASME-SB-209 REV 15 EXC\_MRK VASTNB209 REV 14 (MARKED) KRAFT PAPER INTERLEAVED  
MAX GROSS SKID WGT: 4750 LB QUAN TOL +/- 10 % COR D126870 REV 4 CUST REQ 16-11-02 \*\*\* W/E 16-11-05 \*\*\*

Num	Package Ticket	Lot	Weight	Quantity	UOM	Inspector	Clock Numbers
1	278704	396761	3910	122	PC	47275 27713	27666

Notes for COR: D126870-44  
PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250\_11 ORIGINAL REVISION N DATED 1997-08-01.

COR: D126870-44 -Specification Limits

Temp	Dilr	UTS	TYS	ELAD
T6	Long Transv.	Max	KSI	PCT
		Min	42.0	35.0 10

Chemical Composition

Alloy	6061	SI	FE	CU	MN	MG	CR	ZN	TI	Other
Lot: 396761	- Mechanical, Physical, Metallurgical, Quantometer Results	Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15 0.05 0.15
		Min	0.40	0.15	0.8	0.04				REMAIN

Temp	Dilr	Test	UTS	TYS	ELAD
T6	Long Transv.	11	50.2	42.8	12.6

# CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bellendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected in accordance with the applicable requirements established thereon, and that any specifications forming a part of the description and test samples representative of the material meet the composition limits and that the mechanical properties shown on the face of this report.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made in this certificate.

Per: *Rob Wood*

Rob Wood  
Director of Manufacturing Development Work

Tennesson Thermo  
Quality Assurance Manager

Page 2 of 2

3055128	0	Invoice No.	Alcoa No.	Item	DEE-53903-01-1
Ship Date	B.L. No.	11086569	00000	1000653903-1	Alcoa Item
2016-10-25	Contract No.	Customer	SAWTEL SON & CO LT 6041015420R17		
P.O. No./Qty	Lot#	1			

Lot: 396761 - Mechanical, Physical, Metallurgy, Quantometer Results (cont.)

50.1	42.8	12.6
50.2	42.8	12.5
50.5	43.4	12.3
50.1	42.7	12.9
50.2	42.8	12.8
50.2	42.8	12.6
50.6	43.5	12.2
50	42.3	12.8
50.1	42.4	13.1
50	42.5	12.7

Cast Number	Chemical	0.65	SI	FE	CU	NI	MG	CR	ZN	TI	Other	Each	Other	Total
16W0143041	Actuals	0.65	0.5	0.24	0.06	1.0	0.17	0.01	0.06	< 0.05	< 0.15			

This material was melted in the United States or a Qualifying Country (REF DPAWS 225.872.1(a)); it was manufactured in the United States

# 3436



North American Stainless Canada Inc.  
740 Imperial Road North  
Guelph, ON N1K1Z3  
Canada

# METALLURGICAL TEST REPORT

6870 Highway 42 East  
Gilest, KY 41045-9615  
(502) 347-6000

Certificate: 244878 3

Customer: 007035 501

Date: 12/08/2016 Page: 1

Steel: 304

Finish: 2B

Your Order: 786645

NAS Order: PN 0074023 03

Corrosion: ASTM A262/15 A.180Bend-OK

## PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED, UNS 30400  
ASTM A240/15B, A480/15, A666/15, ASME SA240/15, SA480/15, SA666/15  
CHEM ONLY ON FOLLOWING ASME: A276/15, A479/15, A484/15, A312/16  
CHEM ONLY ON FOLLOWING ASME: SA312/15, SA479/15  
AMS 5513J XCRK, MIL-S-5059D AHEADS (X CROWN BEAN)  
NACE MR0175/180 15156-3:2009 A, MR0103/07, Q08766D-A X MAG PERM  
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

## REMARKS:

Mat'l is Free of Mercury Contamination. No void repairs.  
EN 10204:2004 3.1, ROHS 1 & 2 Compliant  
Material is Free of Radioactive Contamination  
Steel Making Process: EAF, AOD, & Cont. Casting  
Product Mfg. by a Quality Mfg. Sys. in Conf. w/ISO 9001  
\*Molten & Manufactured in the USA, Mat'l is DPMs Compliant

Product Id	Coil #	Slit #	Thickness	Width	Weight	-----Length-----	Mark	Places	Commodity Code
05208T AA	05208T AA		.0300	48.0000	16.690	COIL	9	1	7435225

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JPL(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# 22323 Chemical Analysis per ASTM A751/14a									
HEAT	CM	C %	CR %	CU %	NI %	MO %	N %	NT %	P %
208C	US	.0411	18.1210	.4495	1.7280	.3085	.0752	8.1155	.0270
SI %									
.2290									

## MECHANICAL PROPERTIES


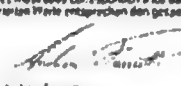
Product Id#	Coil #	1 1/4	UTS	20C	2% YB	20C ELONG	% TELL	Grain	Hard
		0.1	KSI			KSI	%-2"	Hard	RA5T
05208T AA	05208T AA	F 7	104.99	59.76	43.71	56.50	13.00	61.00	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK

12/08/2016

Manufacturer / Fabricante / Herstellerwerk 		Type of document / Tipo de documento / Art der Prüfungsanweisung <b>INSPECTION CERTIFICATE</b> CERTIFICADO DE INSPECCION ABNAHMEPRÜFZEUGNIS according to / de acuerdo con / nach EN 10204-3.1		Document number / Nº de certificado / Bescheinigungs-Nr. <b>0000253804 /</b> Page / Página / Seite: <b>1 / 1</b>																					
1 Steel Drive; P.O. Box 13000; Calvert, AL 36513-1300		Customer's order number / Nº de Pedido Cliente / Kundenbestell-Nr. <b>C17332</b> Manufacturer's works order no. / Nº de Pedido Manufactura / Werksauftrag-Nr. <b>901213420 / 002</b> Delivery note no. / Nº de Entrega / Lieferschein-Nr. <b>85464320 / 010</b> Product / Producto / Erzeugnis <b>SHEET/HOJAS/BLECH</b>																							
Terms of delivery / Condiciones de entrega / Lieferbedingung <b>ASTM A240/A240M-16a, ASME SA-240 Sec. II part A Ed.2015</b> <b>ASTM A480/A480M-16b, ASME SA-480 Sec. II part A Ed.2015</b> <b>ASTM A666-15</b>		Steel grade and quality / Acero / Stahlsorte und Gütegruppe <b>TYPE 304L/304</b>																							
Customer's purchase order no. / Nº de Orden de compra / Kundenbestell-Nr. <b>7081588</b>		Product dimensions (Thickness / Width / Length) / Dimensiones (Espesor / Ancho / Largo) / Maße des Erzeugnisses (Dicke / Breite / Länge) <b>1.52 mm x 1,219.20 mm x 2,438.40 mm</b> <b>0.0600 inch x 48.0000 inch x 96.0000 inch</b>		Stripping procedure / Proceso de manufact / Verfahren <b>A00</b>																					
Finish / Acabado / Ausführung <b>2B</b>																									
Weight / Peso / Gewicht <b>2,601 lb / 1,180 kg</b>																									
Heat no. / Número de / Blatt-Nr. <b>790960</b>		Heat no. / Número de / Blatt-Nr. <b>514212</b>																							
Sample ID / Nº de muestra / Proben-Nr. <b>1000461411</b>		Sample ID / Nº de muestra / Proben-Nr. <b>1000461412</b>																							
Sum / Suma / Summe <b>34</b>		Sum / Suma / Summe <b>2,601 lb / 1,180 kg</b>																							
Heat / Calent / Schmelze <b>514212</b>		Country of Heat / País de origen / Erzeugungsort <b>USA</b>																							
Chemical composition / Composición Química / Chemische Zusammensetzung <table border="1"> <thead> <tr> <th>% C</th> <th>% Si</th> <th>% Mn</th> <th>% P</th> <th>% S</th> <th>% Cr</th> <th>% Mo</th> <th>% Ni</th> <th>% N</th> <th>% Cu</th> </tr> </thead> <tbody> <tr> <td>0.027</td> <td>0.38</td> <td>1.29</td> <td>0.025</td> <td>0.0010</td> <td>18.05</td> <td>0.21</td> <td>8.03</td> <td>0.067</td> <td>0.27</td> </tr> </tbody> </table>		% C	% Si	% Mn	% P	% S	% Cr	% Mo	% Ni	% N	% Cu	0.027	0.38	1.29	0.025	0.0010	18.05	0.21	8.03	0.067	0.27				
% C	% Si	% Mn	% P	% S	% Cr	% Mo	% Ni	% N	% Cu																
0.027	0.38	1.29	0.025	0.0010	18.05	0.21	8.03	0.067	0.27																
Sample Position / Localización de la muestra / Probenlage <b>TRANSVERSE</b>																									
Inspection lot / Lote de inspección / Prüflot <b>1000461411</b>		<b>Y30.2%</b> <b>PSI / MPa</b>		<b>TS</b> <b>PSI / MPa</b>																					
<b>1000461412</b>		<b>43,610 / 300</b> <b>42,784 / 295</b>		<b>87,316 / 671</b> <b>87,026 / 669</b>																					
		<b>57.7</b> <b>58.1</b>		<b>84</b> <b>84</b>																					
Request to integrity under corrosion / Resistencia contra corrosión en granular / Beständig gegen intermetall. Korrosion: <b>ASTM A 262 PRACTICE E - Sample Acceptable</b> Dimensions-surface / Dimensiones-Superficie / Maße-Oberfläche: <b>OK</b> Test of identity (spectrum analysis) / Control de identidad (análisis espectroscópico) / Verwechslungsprüfung (Spektralanalyse): <b>OK</b>																									
Heat Treatment: Solution annealed 1920 °F Min, Air or water cooled Bending test O.K. No welding or weld repairs were performed on this material No intentional additions of Mercury compounds were made or used Free of radioactive contamination EU RoHS Directive 2011/65/EU Compliant Product manufactured in the USA Country of Heat as per ISO 3166-1																									
Originator of the document / Origen del documento / Ursprung der Bescheinigung <b>Outokumpu Stainless USA, LLC</b> <b>An ISO 9001: 2008 certified company</b> <b>EU PED 97/23/EC, Annex I, 4.3 certified</b> Certificate is generated automatically / Certificado es generado automáticamente / Das Zeugnis wurde automatisch erstellt		The information provided is a true copy of data on file / Los valores mostrados corresponden a los datos archivados / Die angegebenen Werte entsprechen den gespeicherten Daten  Andrius Paucelis Printer - 1751 820 3492 Name of expert / Nombre del experto / Name des Sachverständigen		Date of issue and validation / Fecha de emisión y validación / Datum Ausstellung / Bestätigung <b>02/27/2017</b> This document shall not be altered or reproduced, except in full / Este documento, todo o parte, não poderá ser alterado, reproduzido, ou falsei documentos ou partes may be produced by law.																					

P998707



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MC617GR4250  
 DATE: SEP 27 2017

PO / BATCH NO.: 0037737/M38516

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 3'  
 QUANTITY INSPECTED: 3'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.250  
 THICKNESS RECEIVED: 4.250  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Astm B221
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT#201707789
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>5</u> DATE: <u>SEP 27 2017</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**SPECIFICATION CONTROL DRAWING**

PURCHASE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6R[D.DDD]  
DIA.

DAS

WHERE "D.DDD" = DIAMETER IN INCHES  
EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED  
R 2009-08-09  
AP

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN D8-1), REF PAR 08-020A	CP	08.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO M6061T6R		REV. B	
TITLE 6061-T6 ROUND BAR		SHEET 1 OF 1	
DATE		SCALE NTS	
COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PREPARED AND CONTROLLED BY DART AEROSPACE LTD FOR THE AIR FORCE OF CANADA NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD			

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: AL6014GB1.000X12.000

PO / BATCH NO.: 0037737/M138546

DATE: SEP 27 2017

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 12'  
 QUANTITY INSPECTED: 12'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1"  
 THICKNESS RECEIVED: 1"  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	HT #201704837
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

<b>QC 18 INSPECTION</b>	<b>ENGINEERING SIGNOFF (if required)</b>
INSPECTED BY: <u>5</u> DATE: <u>SEP 27 2017</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | 9-89  
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED  
R 2009-09-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND 07-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	REV. B
M6061T6B	SHEET 1 OF 1
TITLE	SCALE
6061-T6 BAR	NTS
COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS UNCLASSIFIED AND UNCONTROLLED, AND IS SUPPLIED ON THE UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR FOR COMMERCIAL OR OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD	



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO37737**

Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 1 of 8

**Order From :**

VC-CAM002

ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

SEP 12 2017

**Contact Name**

**Vendor Phone** 800 667 4248

**Ship To Contact**

**Ship To Phone**

**Ship Via:** Yours ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments		Promise Date				
	Delivery Comments						
1	M1018R1.00	1018-1025 ROUND BAR 1.00	9/15/2017		10.00	\$2.47	\$24.74
			Yes		f		
			9/15/2017				

MATERIAL: AISI 1018-1025 ROUND BAR AS PER MIL-S-7097 OR ASTM A108

**Line Total:** \$24.74

2	M4140H-R8.000	4140 round bar 8.000	9/15/2017	FN	1.00	\$355.23	\$355.23
			Yes		f		
			9/15/2017				

PLEASE CUT ALL OF MAT'L TO 1-1/4" THICK = 9 PCS  
SAW CUT CHARGES INCLUDED IN PRICE  
MATERIAL: AISI 4140 H ROUND BAR PER  
AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03 GRADE-B7/-A29-03/-A332-91 OR UNS # G41400

**Line Total:** \$355.23

**PO Instructions:** quote: sou0055811,sou0056398,  
sou0056649, sou0056468

**Note:**

9/12/2017



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Hawkesbury, ON K6A 1K7  
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Page Number 2 of 8

**Order From :**

VC-CAM002

**Ship To :** DART AEROSPACE LTD

ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone**

800 667 4248

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**Ship To Phone**

**Ship Via:**

Yours ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

✓ 3 MT-HRS-P14.000X14.000X0.750 Hot Rolled Steel Plate 14" x 14" x 0.75" 9/15/2017 FN 2.33 ✓ \$40.73 \$95.03  
Yes sf  
9/15/2017

2 PCS 0.750" X 14" X 14"

MAT'L: HOT ROLLED STEEL PLATE AS PER ASTM A36, ASTM A1011 OR 44W OR ASTM A1018

**Line Total:** \$95.03

✓ 4 M1018B0.250x0.750 1010-1025 Steel Bar .250 x .750 9/15/2017 12.00 \$1.00 \$11.94  
Yes f  
9/15/2017 12.2

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570  
OR CSA G40-21, 38W/44W/50W/60W/70W

**Line Total:** \$11.94

✓ 5 M1018B0.375x5.000 1010-1025 Steel Bar .375 x 5.000 9/15/2017 6.00 ✓ \$10.52 \$63.12  
Yes f  
9/15/2017

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570  
OR CSA G40-21, 38W/44W/50W/60W/70W

**PO Instructions:** quote: sou0055811,sou0056398,  
sou0056649, sou0056468

**Note:**

9/12/2017

SEP 17-9-18



Dart Aerospace Ltd.  
1270 Aberdeen Street  
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## PURCHASE ORDER

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PO Print Date 9/12/2017

Page Number 3 of 8

**Order From :**

VC-CAM002

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ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 800 667 4248

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**Ship To Phone**

**Ship Via:** Yours ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

**Line Total:** \$63.12

6 M1018A3.000W.250 M1018A3.00XW.250 9/15/2017

Yes

9/15/2017

10.00

f

\$3.10

\$30.95

Engineering to approve - No Mil Spec

**Line Total:** \$30.95

7 M6061T6R4.250 6061-T6 Round Bar 4.250 9/15/2017

Yes

9/15/2017

3.00

f

\$65.00

\$195.00

SAW CUT CHARGES INCLUDED IN PRICE

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR

AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116

OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR

ASTM B221

**Line Total:** \$195.00

**PO Instructions:** quote: sou0055811,sou0056398,  
sou0056649, sou0056468

**Note:**

9/12/2017





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1270 Aberdeen Street  
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PO Print Date 9/12/2017

Page Number 4 of 8

**Order From :**

VC-CAM002

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ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 800 667 4248

**Ship To Contact**

**Ship To Phone**

**Ship Via:** Yours ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

8 M6061T6B1.000X12.000 6061-T6 Bar 1.00 x 12.00 9/15/2017  
Yes  
9/15/2017

12.00 \$45.86 \$550.37

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$550.37

9 M6061T6B0.750X12.000 6061-T6 BAR .750" X 12.000" 9/15/2017  
Yes  
9/15/2017

12.00 \$34.35 \$412.23

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR  
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR  
ASTM B221

Line Total: \$412.23

10 71900-90 MILD STEEL ANGLE 5" X 3" x 1/4" WALL 9/15/2017  
Yes  
9/15/2017

40.00 \$3.69 \$147.71

ENG.TESTING

**PO Instructions:** quote: sou0055811,sou0056398,  
sou0056649, sou0056468

**Note:**

9/12/2017



Dart Aerospace Ltd.  
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## PURCHASE ORDER

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Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 5 of 8

**Order From :**

VC-CAM002

ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 800 667 4248

**Ship To Contact**

**Ship To Phone**

**Ship Via:** Yours ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

**Deliver To:** IAN

11 71900-90

MILD STEEL PLATE 1/2" X 12" 9/15/2017

Yes

9/15/2017

ENG.TESTING

20.00

f

**Line Total:**

**\$147.71**

\$11.82

\$236.44

**Deliver To:** IAN

12 71500-15

MILD STEEL SQUARE TUBING 2" X 3" X 1/8" WALL 9/15/2017

Yes

9/15/2017

WELDING TABLE

120.00

f

**Line Total:**

**\$236.44**

\$3.13

\$375.13

**Deliver To:** CARL

13 71500-15

MILD STEEL ANGLE 2" X 2" X 1/8" WALL 9/15/2017

Yes

9/15/2017

WELDING TABLE

100.00

f

**Line Total:**

**\$375.13**

\$0.97

\$97.27

**PO Instructions:** quote: sou0055811,sou0056398,  
sou0056649, sou0056468

**Note:**

9/12/2017

8017-9-18



Dart Aerospace Ltd.  
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## PURCHASE ORDER

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Page Number 6 of 8

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935 BOUL. DU HAVRE  
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1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
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**Contact Name**

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**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms** Net 30

**Currency** CAD

**FOB** FCA - (Free Carrier)

**Line Total:** \$97.27

**Deliver To:** CARL

14 71500-15

MILD STEEL ANGLE 1"  
X 1" X 1/8" WALL

9/15/2017

100.00

\$0.47

\$47.16

Yes

f

WELDING TABLE

9/15/2017

**Line Total:** \$47.16

**Deliver To:** CARL

15 71500-15

ALU PLATE 5/8" X 36" X  
111"

9/15/2017

2.00

\$1,099.84

\$2,199.68

Yes

Each

WELDING TABLE

9/15/2017

**Line Total:** \$2,199.68

**Deliver To:** CARL

16 71400-15

6061T6 SHEET .051"

9/15/2017

128.00

\$2.46

\$314.27

Yes

sf

WELDING TEST

9/15/2017

**Line Total:** \$314.27

**Deliver To:** CARL

**PO Instructions:** quote: sou0055811,sou0056398,  
sou0056649, sou0056468

**Note:**

9/12/2017



Dart Aerospace Ltd.  
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Purchase Order Date 9/11/2017

PO Print Date 9/12/2017

Page Number 7 of 8

**Order From :**

VC-CAM002

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ACIER OUELLETTE INC.  
935 BOUL. DU HAVRE  
VALLEYFIELD, QC J6S 5L1  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

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**Ship To Contact**

**Ship To Phone**

**Ship Via:** Yours ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms** Net 30

**Currency** CAD

**FOB** FCA - (Free Carrier)

17	71400-15	6061T6 SHEET 1/8"	9/15/2017	96.00	\$6.46	\$619.71
			Yes	sf		
	WELDING TEST		9/15/2017			

**Line Total:** \$619.71

**Deliver To:** CARL

18	71400-15	304 SHEET 22GA	9/15/2017	96.00	\$3.62	\$347.83
			Yes	sf		
	WELDING TEST		9/15/2017			

**Line Total:** \$347.83

**Deliver To:** CARL

19	71400-15	304 SHEET 16GA	9/15/2017	32.00	\$6.51	\$208.28
			Yes	sf		
	WELDING TEST		9/15/2017			

**Line Total:** \$208.28

**Deliver To:** CARL

20	71400-15	4130N SHEET .049"	9/15/2017	32.00	\$36.41	\$1,165.00
			Yes	sf		
	WELDING TEST		9/15/2017			

**PO Instructions:** quote: sou0055811,sou0056398,  
sou0056649, sou0056468

**Note:**

9/12/2017



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Page Number 8 of 8

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CA

**Ship To :** DART AEROSPACE LTD

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HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

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**Ship To Phone**

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**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Terms** Net 30

**Currency** CAD

**FOB** FCA - (Free Carrier)

**Deliver To:** CARL

21 71401-45

PROCUREMENT  
QUALITY CLAUSES

9/15/2017

1.00

\$0.00

\$0.00

No

9/15/2017

**Procurement Quality Clauses**

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

**Line Total:** \$1,165.00

**Line Total:** \$0.00

**PO Total:** \$7,497.09

**PO Instructions:** quote: sou0055811, sou0056398,  
sou0056649, sou0056468

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

**Change Nbr:** 3

**Change Date:** 9/12/2017